

Title (en)

IQ-imbalance compensation in presence of carrier offset

Title (de)

IQ-Ungleichgewichtskompensation bei Anwesenheit von Trägeroffset

Title (fr)

Compensation de déséquilibre IQ en présence de décalage de porteuse

Publication

EP 2304914 A1 20110406 (EN)

Application

EP 08774536 A 20080630

Priority

EP 2008058383 W 20080630

Abstract (en)

[origin: WO2010000297A1] An arrangement for processing a received wireless communication signal is disclosed. The arrangement comprises a frequency offset compensation unit (405) adapted to apply a frequency offset compensation to the received wireless communication signal, determination circuitry (405) adapted to determine one or more adjustment values associated with the frequency offset compensation, and an FFT-unit (410) adapted to transform the frequency offset compensated received signal to a frequency domain. The arrangement also comprises an IQ-imbalance estimator (440) adapted to estimate an IQ-imbalance, and an IQ-imbalance compensation unit (420) adapted to perform IQ-imbalance compensation of the received wireless communication signal based on the estimated IQ-imbalance. At least one of the IQ-imbalance estimator and the IQ-imbalance compensation unit is adapted to base its operation on the one or more adjustment values. Corresponding method and computer program product are also disclosed, application both to OFDM and non OFDM signals

IPC 8 full level

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CPC (source: EP US)

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